

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) An aerosol generator system comprising:
an aerosol generator comprising a vibratable member having a front, a rear, an outer periphery and a plurality of apertures extending between the front and the rear, wherein the aerosol generator is configured to produce liquid droplets when operated at a certain vibrational frequency;
a support element disposed about the outer periphery of the vibratable member;
a vibratable element coupled to the support element, the vibratable element being configured to vibrate the vibratable member at ultrasonic frequencies; and
an isolating structure operably coupled to the aerosol generator and support element that is configured to couple the aerosol generator to a support structure, wherein the isolating structure has a vibrational impedance that is sufficient to substantially vibrationally isolate the aerosol generator from the support structure, and
wherein the isolating structure comprises a plurality of arms extending from the support element.
2. (Currently amended) An aerosol generator system as in claim 1, wherein the aerosol generator further comprises a support element disposed about an outer periphery of the vibratable member; and a vibratable element coupled to the support element, the vibratable element being configured to vibrate the vibratable member at ultrasonic frequencies, and wherein the isolating structure and the support element are integrally formed together.
- Claim 3 (canceled).
4. (Currently amended) An aerosol generator system as in claim 3 1, wherein the arms have a contoured shape.
- Claims 5-6 (canceled).

7. (Currently amended) An aerosol generator system as in claim 1, wherein the isolating ~~member~~ structure is configured such that the ratio of forces transmitted to the support structure to forces at an outer edge of the support element is less than about 30%.

8. (Currently amended) An aerosol generator system as in claim 7, wherein the ratio is less than about 20%.

9. (Currently amended) An aerosol generator system as in claim 2, wherein the isolating structure has resonant frequencies that are outside of an operating frequency range of the aerosol generator.

10. (Currently amended) An aerosol generator system as in claim 9, wherein the operating frequency range is about 50 kHz to about 250kHz.

11. (Currently amended) An aerosol generator system as in claim 1, wherein the vibratable member has a center portion containing the apertures, wherein the center portion is dome shaped in geometry, and wherein the apertures taper from the rear to the front.

12. (Currently amended) An aerosolization generator system as in claim 2, wherein the support element comprises a disc member having a central aperture across which the vibratable member is positioned, and wherein the isolating structure comprises an annular gasket disposed about the disc member.

13. (Currently amended) A aerosol generator system as in claim 12, wherein the disc member has a circular outer periphery with a plurality of tabs, and wherein the gasket is inserted between the tabs.

14. (Currently amended) An aerosolization device comprising:
a housing; and
an aerosol generator disposed within the housing, the aerosol generator comprising a vibratable member having a front, a rear, ~~an outer periphery~~ and a plurality of apertures extending between the front and the rear, ~~a support element disposed about the outer periphery of the vibratable member, a vibratable element coupled to the support element, the~~

~~vibratable element being configured to vibrate~~ wherein the vibratable member is configured to vibrate at ultrasonic frequencies, an isolating structure coupled to the support element, and operably connected to the housing, wherein the isolating structure has a vibrational impedance that is sufficient to substantially vibrationally isolate the aerosol generator from the housing; and wherein the isolating structure comprises a plurality of arms extending from the support element.

15. (Currently amended) A device as in claim 14, wherein the aerosol generator further comprises a support element disposed about an outer periphery of the vibratable member, a vibratable element coupled to the support element to vibrate the vibratable member, wherein the isolating structure and the support element are integrally formed together.

Claim 16 (canceled).

17. (Currently amended) A device as in claim ~~16~~ 14, wherein the arms have a contoured shape.

Claims 18-19 (canceled).

20. (Currently amended) A device as in claim ~~15~~ 14, wherein the isolating member is configured such that the ratio of forces transmitted to the support element to forces at an outer edge of the support element is less than about 30%.

21. (Original) A device as in claim 20, wherein the ratio is less than about 10%.

22. (Original) A device as in claim 14, wherein the isolating structure has resonant frequencies that are outside of an operating frequency range of the aerosol generator.

23. (Original) A device as in claim 22, wherein the operating frequency range is about 50 kHz to about 250 kHz.

24. (Original) A device as in claim 14, wherein the vibratable member has a center portion containing the apertures, wherein the center portion is dome shaped in geometry, and wherein the apertures taper from the rear to the front.

25. (Currently amended) An aerosol generator as in claim ~~15~~ 14, wherein the support element comprises a disc member having a central aperture across which the vibratable member is positioned, and herein the isolating structure comprises an annular gasket disposed about the disc member.

26 (Original) An aerosol generator as in claim 25, wherein the disc member has a circular outer periphery with a plurality of tabs, and wherein the gasket is inserted between the tabs.

27. (Currently amended) A method for aerosolizing a liquid, the method comprising:

providing an aerosol generator comprising a vibratable member having a front, a rear, and a plurality of apertures extending between the front and the rear, and a vibratable element to vibrate the vibratable member;

supplying a liquid to the rear of the vibratable member; and

vibrating the vibratable member with the vibratable element to eject liquid droplets through the apertures while substantially vibrationally isolating the aerosol generator with an isolating structure that is operably coupled to a support structure;

wherein the isolating structure comprises a plurality of arms extending from the aerosol generator, wherein the isolating structure is configured to vibrationally isolate the aerosol generator from the support structure.

28. (Currently amended) A method as in claim 27, further comprising vibrating the vibratable member at a frequency that is different than a resonant frequency of the isolating structure, and wherein the vibratable member is vibrated at a frequency in the range from about 50 kHz to about 250 kHz, and wherein the ratio of forces transmitted to the support structure to forces at an outer edge of the aerosol generator is less than about 30%.

Claims 29-35 (canceled).